

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

1. (Currently Amended) A system that facilitates finding documentation, comprising:

a computer processor;

memory containing instructions for executing the following components:

a query component that receives a request for technical articles, the request comprising terminology of a first vocabulary corresponding to a first programming language, the query component receives user input as a request for information, the request including at least one of text input, voice encoded input, video camera input, and audio input;

wherein the request for information is in the form of a natural language or syntax that is familiar to the user including terms and expressions that have been employed over time by the user; and

wherein the user input is processed by a parser into functional objects relating to information components that are processed to facilitate desired information retrieval, the functional objects are associated with a decision-theoretic analysis that includes analyzing extrinsic evidence or data of a user's present context state, and directing information in accordance with the data;

a mapping component that correlates terminology of the first vocabulary to semantically equivalent terminology of a second vocabulary related to a second programming language; and

a discovery component that retrieves technical articles based upon the terminology of the second vocabulary that is semantically equivalent to the terminology of the first vocabulary employed in the request, wherein the discovery component comprises an instrumentation component to determine an importance value for a retrieved technical document, the instrumentation component monitors at least one of visible technical documentation, search engine activity, and network traffic activity, and further monitors at least one of a counter, a type of word or phrase employed in a search, an implied or inferred measurement of data activity and an explicit request from users regarding a data source's technical value, ranking or merit.

2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Previously Presented) The system of claim 1, the mapping component includes rules or models that map or analogize a first set of terms with a second set of terms.
7. (Previously Presented) The system of claim 1, the functional objects are employed by the mapping component to build or create search terms or queries that are applied to a remote or local database.
8. (Previously Presented) The system of claim 1, the mapping component further comprises at least one of a rule, a learning algorithm, an automated classification method, an inference model, a probability model, a statistical model, a neural network, a Support Vector Machine (SVM), a Naive Bayes model, a Bayes network, a decision tree, a similarity-based model, a vector-based model, and a Hidden Markov Model.
9. (Canceled)
10. (Previously Presented) The system of claim 1, the evidence includes at least one of keyboard activities, mouse movements, microphone inputs, camera inputs, time information, and electronic calendar information.
11. (Previously Presented) The system of claim 1, the discovery component includes at least one of an automated search engine, an indexing engine, and a structured query language engine for retrieving information from a database.

12. (Previously Presented) The system of claim 1, the mapping component further comprising at least one of a technical vocabulary object, a development vocabulary object, a synonym object, an index object, and a prioritization object to facilitate retrieval of information.

13. (Canceled)

14. (Previously Presented) The system of claim 1, the instrumentation component tracks and maps successful and unsuccessful attempts to discover and interpret technology-specific and programming-language-specific functionality employing a natural or professional language.

15. (Previously Presented) The system of claim 1, further comprising a database for search attempts that indicates a technical value for selected technical information within a documentation set or other data structure residing in the database.

16. (Canceled)

17. (Canceled)

18. (Previously Presented) The system of claim 1, further comprising a graphical user interface to determine a value for a technical document.

19. (Previously Presented) The system of claim 18, the user interface includes at least one of a ratings scale, a feedback component to allow users to determine what others thought of the technical document, and an input box to enable users to submit feedback as to why they ranked a particular technical document in the manner that was selected.

20. (Previously Presented) The system of claim 1, further comprising a graphical user interface to depict a cross reference of terminology of the first vocabulary with terminology of the second vocabulary.

21. (Previously Presented) The system of claim 20, the cross reference includes at least one of a table of terminology of the first vocabulary displayed with a table of terminology of the second vocabulary, a single table showing cross-functional relationships including arrows or other indicators depicting relationships between terminology, a modular or graphical output including a block diagram in terminology of the first vocabulary that highlights or points to a corresponding block diagram of terminology of the second vocabulary, a system drawing to show one component's relationship to the system in terminology of the first vocabulary while also illustrating, fading, superimposing, or highlighting a related term on the system drawing to detail a relationship between terminology of the second vocabulary, and contrast blocks or diagrams that are displayed detailing differences with conventional terminology or design practices.

22. (Previously Presented) A computer readable medium having computer readable instructions stored thereon for implementing the query component, the mapping component, and the discovery component of claim 1.

23. (Currently Amended) A computer-based information retrieval system, comprising:
means for creating ~~an~~ a first object associated with developer terms or phrases learned from past user searching patterns;
means for receiving a developer's request for functionally equivalent information via a query component, the request comprising terminology of a first vocabulary corresponding to a first programming language, and the request including at least one of text input, voice encoded input, video camera input, and audio input, wherein the request for information is in the form of a natural language or syntax that is familiar to the user including terms and expressions that have been employed over time by the user;
means for processing the request by a parser into a functional second object relating to information components that are processed to facilitate desired information retrieval, the second object is associated with a decision-theoretic analysis that includes analyzing extrinsic evidence or data of a user's present context state, and directing information in accordance with the data;

means for correlating the first and second objects ~~object~~ with alternative terms or phrases;
means for retrieving technical articles with functional information equivalent to the developer terms and phrases in accordance with the alternative terms or phrases based at least in part on determined differences between the first object and the second object;

means for determining an importance value for a retrieved technical document;
means for monitoring at least one of visible technical documentation, search engine activity, and network traffic activity;

means for monitoring at least one of a counter, a type of word or phrase employed in a search, an implied or inferred measurement of data activity and an explicit request from users regarding a data source's technical value, ranking or merit.

24. (Currently Amended) A method to facilitate automated information retrieval, comprising:
automatically generating a first object set as a function of monitored programmer behavior, the first object set associated with a primary development environment;

receiving a developer's request for functionally equivalent information via a query component, the request comprising terminology of a first vocabulary corresponding to a first programming language, and the request including at least one of text input, voice encoded input, video camera input, and audio input, wherein the request for information is in the form of a natural language or syntax that is familiar to the user including terms and expressions that have been employed over time by the user;

processing the request by a parser into a functional second object set relating to information components that are processed to facilitate desired information retrieval, the second object set is associated with a decision-theoretic analysis that includes analyzing extrinsic evidence or data of a user's present context state, and directing information in accordance with the data;

automatically comparing the first object set to the a second object set associated with a different development environment;

correlating the first and second object sets with alternative terms or phrases;
automatically searching for functionally equivalent technical articles based at least in part on determined differences between the first object set and the second object set; and
automatically determining an importance value for a retrieved technical document *via*

monitoring at least one of visible technical documentation, search engine activity, and network traffic activity, and further monitoring at least one of a counter, a type of word or phrase employed in a search, an implied or inferred measurement of data activity and an explicit request from users regarding a data source's technical value, ranking or merit.

25. (Canceled)

26. (Canceled)

27. (Currently Amended) The method of claim 24 ~~26~~, further comprising automatically deriving the functionally equivalent information from the second object set.

28. (Original) The method of claim 24, further comprising at least one of:
receiving feedback from a developer; and
generating a cross-index of familiar terms and unfamiliar terms to the developer.

29. (Previously Presented) The method of claim 24, the first object set further comprising at least one of a technical vocabulary object, a development vocabulary object, a synonym object, an index object, and a prioritization object.

30. (Previously Presented) The method of claim 24, further comprising automatically ranking the functionally equivalent information.

31. (Canceled)

32. (Canceled)

33. (Currently Amended) A computer implemented method for finding technical documentation, the method comprising:
receiving a first query string from a user via a query component, the query string comprising terminology of a first vocabulary corresponding to a first programming language, the

query component receives the first query string as a request for information, the request including at least one of text input, voice encoded input, video camera input, and audio input, wherein the request for information is in the form of a natural language or syntax that is familiar to the user including terms and expressions that have been employed over time by the user;

processing the first query string by a parser into functional objects relating to information components that are processed to facilitate desired information retrieval, the functional objects are associated with a decision-theoretic analysis that includes analyzing extrinsic evidence or data of a user's present context state, and directing information in accordance with the data;

mapping the first vocabulary to a second vocabulary that corresponds to a second programming language;

generating a second query string in terminology of the second vocabulary by employing the second vocabulary and the first query string, the second query string semantically corresponds to the first query string;

searching a document set for articles relevant to the second query;

providing articles found by the search to the user based upon the terminology of the second vocabulary that is semantically equivalent to the terminology of the first vocabulary employed in the request;

determining an importance value for a retrieved technical document *via* monitoring at least one of visible technical documentation, search engine activity, and network traffic activity; and

further monitoring at least one of a counter, a type of word or phrase employed in a search, an implied or inferred measurement of data activity and an explicit request from users regarding a data source's technical value, ranking or merit.

34. (Previously Presented) The method of claim 33, further comprising allowing users to interactively input relevancies of search results and utilizing the relevancies to perform further searches.